

ABSTRACT OF THE DISCLOSURE

The present invention relates to a combinatorial library which includes a
5 plurality of at least six different complexes. Each of the complexes is formed of at least
one complexing agent and at least two non-biopolymer ligands that are reversibly bonded
to the complexing agent, and each different complex in the library has different ligands
bonded to the complexing agent. Compositions that include these combinatorial libraries
and receptors are also disclosed, as are methods for identifying a combination of non-
10 biopolymer ligands which bind preferentially to a receptor. Methods for producing the
combinatorial libraries are also described. The combinatorial libraries, compositions, and
methods of the present invention permit the selection and amplification of non-
biopolymeric molecules which are targeted to a particular receptor, where the selection and
amplification criteria are based strictly on differences in binding affinity to a receptor.
15 Thus, the present invention has utility for the identification and preparation of non-
biopolymeric molecules which are targeted to a particular receptor.